

CLAIMS

1. A method of making a window unit, the method comprising:
providing a coating on a glass substrate, the coating including at least one layer comprising Ag;

depositing a protective layer comprising diamond-like carbon (DLC) on the glass substrate over the coating;

heat treating the glass substrate with the coating and protective layer thereon so that the protective layer comprising diamond-like carbon (DLC) at least partially burns off during the heat treating; and

following said heat treating, coupling the glass substrate with the coating thereon to another substrate in order to form the window unit.

2. The method of claim 1, wherein the window unit is an insulating glass (IG) window unit.

3. The method of claim 1, wherein said coupling comprises laminating the glass substrate to the another substrate via a polymer inclusive interlayer in order to form a vehicle windshield.

4. The method of claim 1, wherein said heat treating comprises heating the glass substrate to a temperature of at least about 570⁰ C.

5. The method of claim 4, wherein said heat treating comprises heating the glass substrate to a temperature of from about 590⁰ C to 788⁰ C for at least one minute in thermally tempering and/or heat bending the glass substrate.

6. The method of claim 1, wherein the protective layer comprising DLC entirely burns off during the heat treatment.

7. The method of claim 1, wherein the protective layer comprising DLC is deposited on the glass substrate over the coating via ion beam deposition using a hydrocarbon inclusive gas in an ion beam source.

8. The method of claim 1, wherein the protective layer comprising DLC has an average hardness of at least about 10 GPa.

9. The method of claim 8, wherein the protective layer comprising DLC has an average hardness of at least about 20 GPa.

10. The method of claim 1, wherein the protective layer comprising DLC includes more sp^3 carbon-carbon bonds than sp^2 carbon-carbon bonds.

11. The method of claim 1, wherein the coating comprises a second layer comprising Ag, and wherein the two layers comprising Ag in the coating are spaced from one another with at least one dielectric layer provided therebetween.

12. The method of claim 1, wherein the dielectric layer comprises at least one of tin oxide and silicon nitride.

13. A method of making a window unit, the method comprising:
providing a solar control coating on a glass substrate;
ion beam depositing a protective layer comprising diamond-like carbon (DLC) on the glass substrate over the coating;
heat treating the substrate with the coating and protective layer thereon at a temperature of at least 570 degrees C so that the protective layer comprising diamond-like carbon (DLC) at least partially burns off; and
following said heat treating, coupling the glass substrate with the coating thereon to another substrate in order to form the window unit.

14. The method of claim 13, wherein the window unit comprises at least one of an IG window unit and a vehicle windshield.

15. The method of claim 13, wherein the solar control coating comprises at least one layer comprising Ag, and at least first and second dielectric layers on opposites sides of the layer comprising Ag.

16. A method of making a window unit, the method comprising:
providing a solar control coating on a glass substrate;

depositing at least one temporary protective layer on the glass substrate over the coating;

heat treating the substrate with the coating and protective layer thereon at a temperature of at least 570 degrees C so that the protective layer burns-off; and

following said heat treating, coupling the glass substrate with the coating thereon to another substrate in order to form the window unit.

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